

Shrewsbury High School

Shrewsbury, MA



Class Size Report 2016-2017

**Data based on enrollment numbers as of
October 1, 2016**

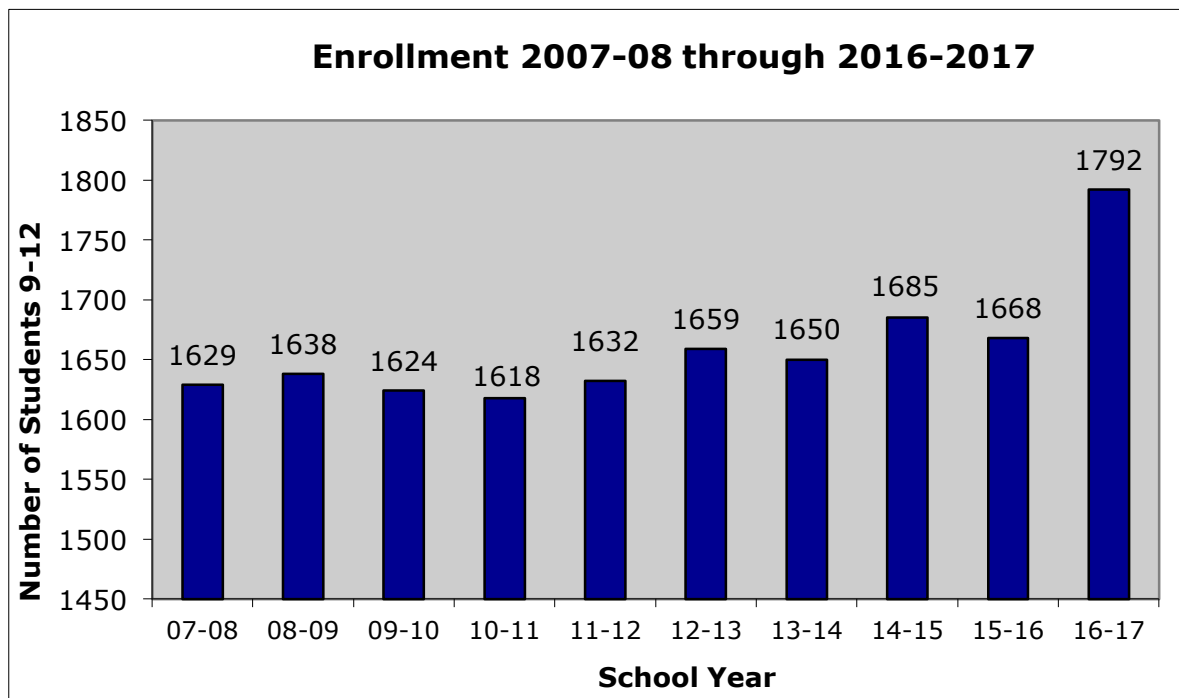
Shrewsbury High School Class Size Report - October 2016

This report is based on data from the week of October 1, 2016. It contains information on class size and student enrollment for the first and second semesters of the 2016-2017 school year.

Overall Enrollment

With an increase of 124 students from last year and the largest one-year increase, high school enrollment has reached its highest level. The charts below show the ten-year enrollment trend for the high school both in the aggregate and by grade.

								OVERRIDE		
Grade	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17
9	419	393	421	401	414	408	420	432	413	513
10	404	429	398	417	414	422	406	423	440	428
11	423	390	415	390	413	417	421	410	412	441
12	383	426	390	410	391	412	403	420	403	410
Total	1629	1638	1624	1618	1632	1659	1650	1685	1668	1792



Diversifying Student Population

From July 1st through October 1st, 2016, eighty-eight (88) students have enrolled at Shrewsbury High School. This population continues to influence the demand for certain courses resulting in a relatively significant impact on FTEs for certain departments. These eighty-eight students came to Shrewsbury from the following locations:

- 56 from within Massachusetts
- 14 from states other than Massachusetts including:
 - Arkansas
 - California
 - Colorado
 - Connecticut
 - Florida
 - New Hampshire
 - New York
 - Rhode Island
 - Ohio
 - Tennessee
 - Texas
- 15 from countries other than the United States including:
 - Brazil
 - Ghana
 - Haiti
 - Israel
 - Nigeria
 - Northern Mariana Islands
 - Puerto Rico
 - Qatar
 - Turkey
 - Venezuela
- 3 students previously home-schooled

Building/Facility Capacity

Increased enrollment impacts the master schedule, the availability of courses, class size, and building capacity. As may be expected with its highest enrollment on record, Shrewsbury High School operates at a building capacity of 96% (compared to 76% just two years ago). That is, on average, 96% of classrooms are in use during the school day (periods 1 – 7). This represents a significant factor when constructing the master schedule and the availability of courses throughout the school day. As a result, the majority of teachers now share classrooms and most teachers teach in more than one classroom. The chart below summarizes the number of available classrooms in each wing of the high school:

# of available rooms each period by hallway					
	English hallway A300s	Social Science hallway B300s	Math hallway A200s	Science hallways A100s & A200s	Foreign Language hallway B200s
Period 1	0	0	0	2	2
Period 2	2	1	2	0	0
Period 3	0	3	1	1	0
Period 4	0	2	1	2	0
Period 5	0	1	0	0	0
Period 6	0	0	1	1	3
Period 7	0	0	0	0	0
Hallways filled to xx%	98%	93%	96%	95%	94%

Teaching and Full-Time Equivalency (FTEs)

Although it appears as though the high school had an increase of 0.8 FTEs, this was a result of reallocations within district-wide staff:

- Science: internal shift of 0.2 FTE from science to engineering. (Net gain = 0)
- ITAMS: internal shift of 0.4 FTE non-teaching support to teaching staff. (Net gain = .4)
- Foreign Language: reallocation of 0.4 middle school teachers to the high school and 0.2 shift from VHS. (Net gain =0.6)

Teaching FTEs by Academic Department							
			OVER RIDE				
Department--All	12-13	13-14	14-15	15-16	16-17	1-Year Diff.	5-Year Diff.
Engineering	1.2	1.2	1.6	1.8	2.0	+2	+0.8
English	13.4	13.4	16.4	16.4	16.4	-	+3.0
English Language Education	1.2	1.2	1.9	1.9	1.9	-	+0.7
Family & Consumer Science	3.0	3.0	3.0	3.0	3.0	-	-
Foreign Language	10.6	11.0	12.0	12.0	12.6	+0.6	+2.0
Health & Phys. Ed.	8.6	8.6	9.0	9.0	9.0	-	+0.4
ITAMS	1.8	2.0	2.6	3.0	3.4	+0.4	+1.6
Math	13.8	13.8	16.8	16.8	16.8	-	+3.0
Performing Arts	2.1	2.1	2.7	2.9	2.9	-	+0.8
Science	13.4	13.4	17.0	16.8	16.6	-0.2	+3.2
Social Science	12.4	12.4	15.4	15.4	15.4	-	+3.0
Special Programs (VHS)	0.2	0.2	0.2	0.2	0.1	-0.1	-0.1
Visual Art	3.4	3.4	4.4	4.4	4.3	-0.1	+0.9
Total FTE	85.1	85.7	103.0	103.6	104.4	+0.8	+19.3
9 - 12 Enrollment	1659	1650	1685	1668	1792	+124	+36

Staffing (FTEs) by Academic Department							
Department--All	12-13	13-14	14-15	15-16	16-17	1-Year Diff.	5-Year Diff.
English	13.4	13.4	16.4	16.4	16.4	-	+3.0
Social Science	12.4	12.4	15.4	15.4	15.4	-	+3.0
Math	13.8	13.8	16.8	16.8	16.8	-	+3.0
Science & Engineering	14.6	14.6	18.6	18.6	18.6	-	+4.0
Foreign Language	10.6	11.0	12.0	12.0	12.6	+0.6	+2.0
Academic FTEs Total	64.8	65.2	79.2	79.2	79.8	+0.6	+18.0
9 - 12 Enrollment	1659	1650	1685	1668	1792	+124	+133
Average Academic Student-to-Teacher Ratio	25.6	25.3	21.3	21.1	22.5	+1.4	-3.1

Class Enrollment

The following table reveals the significant progress that has been made in reducing the number of over-enrolled (27 or more students) sections compared to four years ago. This year, however, a relatively significant number of classes (9.7%) have over-enrolled courses due primarily to the increase in enrollment with minimal increase in staffing (0.6 FTEs).

Department	# sections at 27 or more students				% of over-enrolled classes			
		OVER RIDE				OVER RIDE		
	13-14	14-15	15-16	16-17	13-14	14-15	15-16	16-17
English	19	2	2	3	28%	2%	2%	4%
For. Lang.	12	5	2	5	22%	8%	3%	8%
Math	22	3	0	6	32%	4%	0%	8%
Science/Eng.	53*	0*	0*	5	65%	0%	0%	7%
Soc. Sci.	33	1	1	14	48%	1%	1%	21%
TOTALS	139	11	5	33	41%	3%	1%	9.7%

Teacher Caseloads

The vast majority of SHS teachers are responsible for a caseload of between 100 and 110 students (class size average is 20 - 22 students per section). Although the over-ride in June 2014 significantly reduced teachers' total caseload of students and their corresponding average class size, nearly 63% of teachers this year (compared to just 33% last year) have an average class size over 21.

	Pre-override		Post-override			
Teachers' Caseload: Average Class Size	2013 – 2014 (three years ago)		2015 – 2016 (last year)		2016 – 2017 (this year)	
< 19	11%	19%	29.5%	67%	15.8%	37.3%
19.1 – 21.0	8%		37.5%		21.5%	
21.1 – 23.0	21%	81%	22.3%	33%	36.4%	62.7%
> 23.1	60%		10.7%		26.3%	

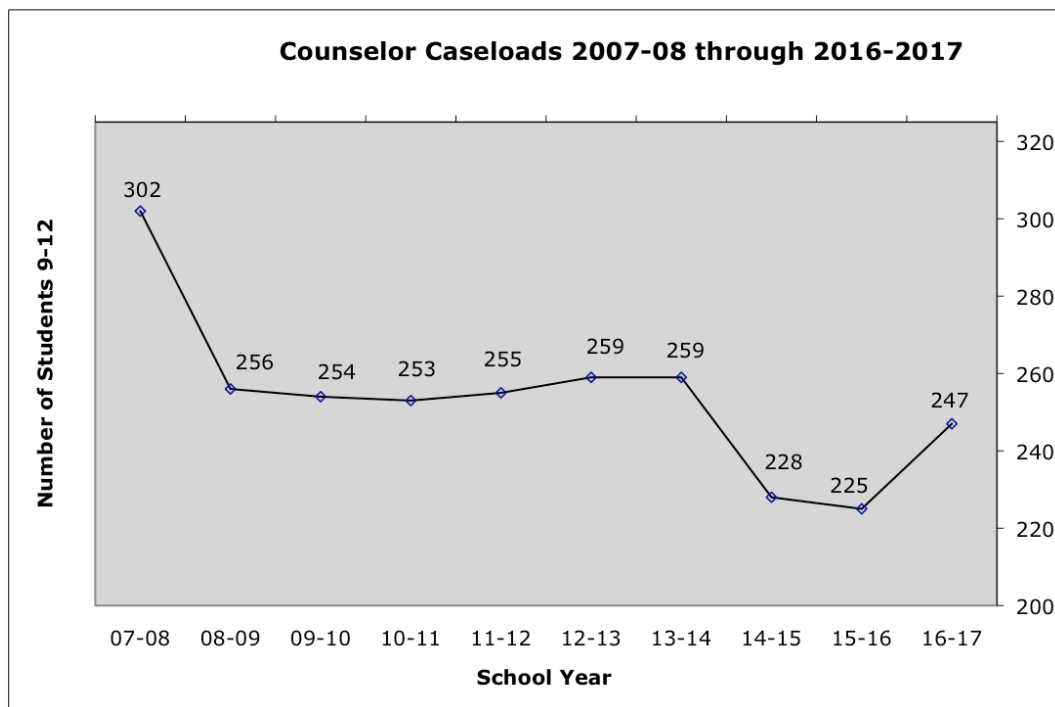
Average Class Size by Department

As the result of increased enrollment and minimal increase in teaching FTEs, the average class size for all departments increased compared to the last two years.

Average Class Size by Department 2012-13 through 2016-17						
			OVERRIDE			
Department	12-13	13-14	14-15	15-16	16-17	Range 15-16
English	23.7	23.9	20.0	20.2	21.2	11 -27
English Language Learners	7.3	7.0	7.7	10.5	11.1	6-18
Engineering	20.8	21.6	19.3	19.1	20.5	15-24
Family & Consumer Science	22.6	21.6	21.8	22.1	22.5	17-25
Foreign Language	23.6	22.3	22.8	20.3	20.3	9-32
Health	24.2	24.2	24.3	24.1	27.5	22-31
Instructional Technology	20.0	16.0	16.0	11.0	12.0	1-22
Mathematics	23.9	23.5	20.6	20.3	22.3	9-28
Performing Arts	31.4	29.9	22.9	23.5	24.6	10-63
Physical Education	25.1	24.3	25.3	24.8	24.8	19-34
Science	24.4	24.2	19.8	20.3	21.4	10-25
Social Sciences	25.9	25.8	22.8	21.7	24.5	17-28
Visual Arts	18.8	19.6	16.2	16.9	17.9	5-22

School Counseling

One of the departments most affected by an increase in enrollment is the School Counseling Department. With the addition of 124 students this year, the average student-to-counselor ratio has increased from 225:1 last year to 247:1 this year.



Special Education & ELL Co-Taught Courses

Expanded programming for English Language Learners and Special Education students continues with a number of co-taught sections in Mathematics and Science. In addition, co-taught programming has expanded to the English Department. This school year we have offered additional sections of co-taught Lab Chemistry, Lab Biology, Algebra and Geometry I, Algebra and Geometry II, Advanced Math I, Advanced Math II Topics, and English 12.

Student Internships and Independent Studies

Students continue to enroll in school-based internships for credit during what would otherwise be study periods. These opportunities have helped mitigate the overall study hall numbers. School-based internships include office internships, which involve clerical duties (e.g. answering telephones, filing, reception) as well as academic internships where students work as teaching assistants in certain classrooms and provide clerical support to department directors. Enrollments for the past two years are as follows:

Internships	2015 - 16	2016 - 17
Program	# Students	# Students
Athletic Internship	8	3
Banking Internship	4	3
Family and Consumer Science	2	1
English Internship	2	2
Foreign Language Internship	4	5
Guidance Internship	17	7
Health Internship	2	0
ITAMS Internship	1	1
Math Internship	3	12
Media Internship	1	5
Office Internship	11	9
Science Internship	6	2
Social Science Internship	2	2
Special Education Internship	2	6
Tutoring Lab Internship	24	26
Visual Arts Internship	6	5
Total	95	89



Enrollment by Department